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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): R. Laroia et al.

Case: 20-6

Serial No.: 09/631,805

Filing Date: August 3, 2000

Title: Adaptive Antenna Array Methods and Apparatus for
Use in a Multi-Access Wireless Communication System

Group: 2745

Examiner: To Be Assigned

I hereby certify that this paper is being deposited on this date with the U.S. Postal Service as first class mail addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature: Lucia M. Hanen Date: October 17, 2000

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants' attorney wishes to bring to the attention of the Patent and Trademark Office the following documents listed on the accompanying Form PTO-1449. A copy of each listed document is enclosed.

1. J.C. Liberti and T.S. Rappaport, "Analytical Results for Capacity Improvements in CDMA," IEEE Transactions on Vehicular Technology, Vol. 43, No. 3, pp. 680-690, 1994.

2. J.H. Winters et al., "The Impact of Antenna Diversity on the Capacity of Wireless Communication Systems," IEEE Transactions on Communications, Vol. 42, No. 2/3/4, pp.1740-1751, 1994.

3. Z. Rong et al., "Simulation of Multitarget Adaptive Array Algorithms for Wireless CDMA Systems," Proc. of the IEEE Vehicular Technology Conference, pp. 1-5, 1997.

4. G.E. Bottomley and K. Jamal, "Adaptive Arrays and MLSE Equalization," Proc. of the IEEE Vehicular Technology Conference, pp. 50-54, 1995.

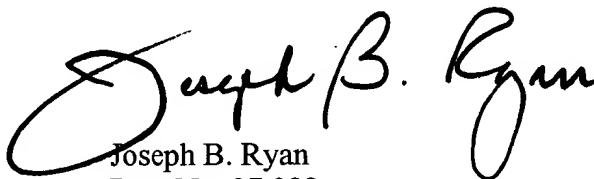
5. J.H. Winters, "Signal Acquisition and Tracking with Adaptive Arrays in the Digital Mobile Radio System IS-54 with Flat Fading," IEEE Transactions on Vehicular Technology, Vol.42, No. 4, pp. 377-384, 1993.

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It is believed that there is no fee due in conjunction with the filing of this Information Disclosure Statement. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Lucent Technologies Deposit Account No. 12-2325** as required to correct the error.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability, or as a representation that no other material information exists.

Respectfully submitted,

A handwritten signature in black ink, reading "Joseph B. Ryan". The signature is fluid and cursive, with the first name "Joseph" and last name "Ryan" being more prominent than the middle initial "B.".

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Date: October 17, 2000
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